


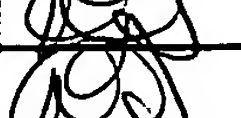



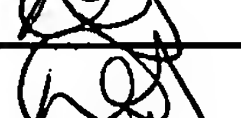


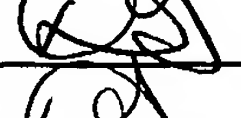


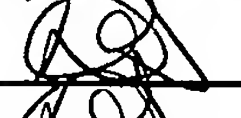
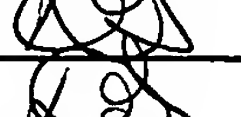
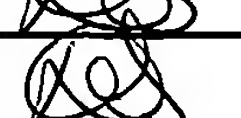
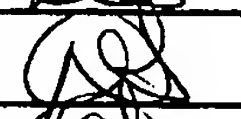

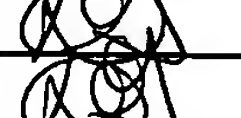
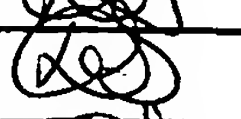

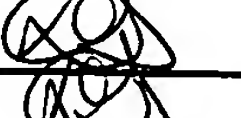

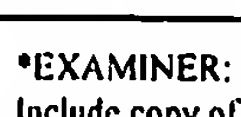









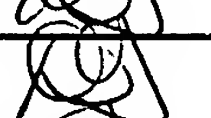
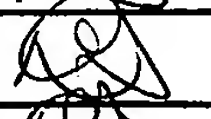

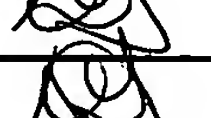





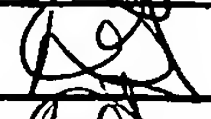


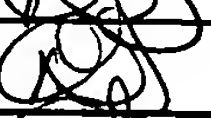
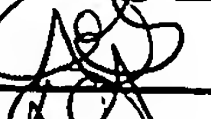

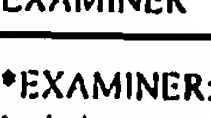




Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. P23696		Serial No. 10/646,723						
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)					Applicant Hiroshi NOMURA								
					Filing Date August 25, 2003		Group 2851						
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL	YEAR	MONTH	DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2004	/0	0	4	2	0	9	5	03/04/04	NOMURA			
	2004	/0	0	4	2	0	9	3	03/04/04	NOMURA			
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		4	6	4	3	5	5	5	02/17/87	WAKABAYASHI			
		4	7	2	1	9	7	2	01/26/88	WAKABAYASHI			
		4	7	9	2	8	2	2	12/20/88	AKIYAMA et al.			
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		4	4	5	1	1	2	9	05/29/84	IKARI et al.			
EXAMINER <u>D. Gray</u>										DATE CONSIDERED <u>9/2/04</u>			

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U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4	6	4	3	5	5	4	02/17/87	OGAWA			
		4	7	7	1	3	0	3	09/13/88	MATSUMOTO et al.			
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		5	1	3	6	3	2	4	08/04/92	TSUBOI et al.			
		5	7	6	5	0	4	9	06/09/98	HASE et al.			
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		5	7	3	9	9	6	2	04/14/98	ASAKURA et al.			
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EXAMINER <u>D. Gray</u>					DATE CONSIDERED <u>9/2/04</u>								
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				Filing Date August 25, 2003		Group 2851	

U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE						
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	5	02/04/92	TANAKA et al.									
	5	03/12/96	SAKAMOTO et al.									
	6	05/30/00	FUJII et al.									
	6	11/27/01	TAKANASHI et al.									
	5	01/16/96	NOMURA et al.									

FOREIGN PATENT DOCUMENTS												
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO							
58	08/31/83	JAPAN										
61	04/09/86	JAPAN										
61	12/01/86	JAPAN										
63	06/22/88	JAPAN										
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EXAMINER <u>D. Gray</u>	DATE CONSIDERED <u>9/2/04</u>
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	7	-	2	8	8	7	2	4	10/31/95	JAPAN	X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)												
		1	English Language Abstract of JP 58-10708.									
		2	English Language Abstract of JP 2003-207709.									
		3	English Language Abstract of JP 2002-277719.									
		4	English Language Abstract of JP 10-282394.									
		5	English Language Abstract of JP 58-162914.									
EXAMINER		R. Gray				DATE CONSIDERED 9/2/04						
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